Mehmet R Dokmeci

List of Publications by Year
in descending order

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Version: 2024-02-01

99 papers	14,420 citations	26567 56 h-index	20900 115 g-index
152 all docs	152 docs citations	152 times ranked	16287 citing authors

#	Article	IF	Citations
1	Engineering liver microtissues to study the fusion of HepG2 with mesenchymal stem cells and invasive potential of fused cells. Biofabrication, 2022, 14, 014104.	3.7	5
2	Labâ€onâ€aâ€Contact Lens: Recent Advances and Future Opportunities in Diagnostics and Therapeutics. Advanced Materials, 2022, 34, e2108389.	11.1	48
3	Advances in microfabrication technologies in tissue engineering and regenerative medicine. Artificial Organs, 2022, 46, .	1.0	16
4	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing. Biomaterials, 2022, 285, 121479.	5.7	68
5	Coâ€Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration. Small, 2022, 18, e2107714.	5.2	23
6	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. Biofabrication, 2021, 13, 035030.	3.7	54
7	A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. Small, 2021, 17, e2004258.	5.2	57
8	Organâ€onâ€aâ€Chip: A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). Small, 2021, 17, 2170070.	5.2	0
9	Healthy and diseased in vitro models of vascular systems. Lab on A Chip, 2021, 21, 641-659.	3.1	18
10	Cancerâ€onâ€aâ€Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. Small, 2021, 17, e2004282.	5.2	30
11	Roomâ€Temperatureâ€Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics. Advanced Materials, 2020, 32, e1904752.	11.1	158
12	Hydrogels: Roomâ€Temperatureâ€Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics (Adv. Mater. 1/2020). Advanced Materials, 2020, 32, 2070005.	11.1	3
13	Non-transdermal microneedles for advanced drug delivery. Advanced Drug Delivery Reviews, 2020, 165-166, 41-59.	6.6	80
14	Hydrogelâ€Enabled Transferâ€Printing of Conducting Polymer Films for Soft Organic Bioelectronics. Advanced Functional Materials, 2020, 30, 1906016.	7.8	55
15	Microengineered poly(HEMA) hydrogels for wearable contact lens biosensing. Lab on A Chip, 2020, 20, 4205-4214.	3.1	27
16	Micro and nanoscale technologies in oral drug delivery. Advanced Drug Delivery Reviews, 2020, 157, 37-62.	6.6	123
17	Wearable Tactile Sensors: Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	7.8	6
18	Biodegradable microneedle patch for transdermal gene delivery. Nanoscale, 2020, 12, 16724-16729.	2.8	57

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19	Combined Effects of Electric Stimulation and Microgrooves in Cardiac Tissueâ€onâ€aâ€Chip for Drug Screening. Small Methods, 2020, 4, 2000438.	4.6	15
20	Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables. Advanced Functional Materials, 2020, 30, 2003601.	7.8	112
21	Biodegradable Î²â€Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Waterâ€Insoluble Drug. Advanced Healthcare Materials, 2020, 9, e2000527.	3.9	91
22	Angiogenesis: Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAPâ€Mediated Mechanosensing (Small 25/2020). Small, 2020, 16, 2070142.	5.2	0
23	Hydrogelâ€Enabled Transfer Printing: Hydrogelâ€Enabled Transferâ€Printing of Conducting Polymer Films for Soft Organic Bioelectronics (Adv. Funct. Mater. 6/2020). Advanced Functional Materials, 2020, 30, 2070038.	7.8	2
24	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. Small, 2020, 16, e1905910.	5.2	104
25	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. Advanced Functional Materials, 2020, 30, 2000086.	7.8	91
26	Microneedle Patches: Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid (Small 16/2020). Small, 2020, 16, 2070086.	5.2	4
27	Microfluidics in biofabrication. Biofabrication, 2020, 12, 030201.	3.7	10
28	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging. ACS Applied Bio Materials, 2020, 3, 6908-6918.	2.3	12
29	Enhancement of label-free biosensing of cardiac troponin I. , 2020, 11251, .		7
30	The emergence of 3D bioprinting in organ-on-chip systems. Progress in Biomedical Engineering, 2019, 1, 012001.	2.8	67
31	Three-Dimensional Bioprinting of Functional Skeletal Muscle Tissue Using GelatinMethacryloyl-Alginate Bioinks. Micromachines, 2019, 10, 679.	1.4	87
32	A Foreign Body Responseâ€onâ€aâ€Chip Platform. Advanced Healthcare Materials, 2019, 8, e1801425.	3.9	51
33	3D Bioprinting in Skeletal Muscle Tissue Engineering. Small, 2019, 15, e1805530.	5.2	192
34	Highâ€Throughput Drug Screening: A Microfabricated Sandwiching Assay for Nanoliter and Highâ€Throughput Biomarker Screening (Small 15/2019). Small, 2019, 15, 1970078.	5.2	1
35	In situ three-dimensional printing for reparative and regenerative therapy. Biomedical Microdevices, 2019, 21, 42.	1.4	61
36	Hall of Fame Article: Minimally Invasive and Regenerative Therapeutics (Adv. Mater. 1/2019). Advanced Materials, 2019, 31, 1970005.	11.1	2

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37	Biodegradable Gelatin Methacryloyl Microneedles for Transdermal Drug Delivery. Advanced Healthcare Materials, 2019, 8, e1801054.	3.9	177
38	Organâ€onâ€aâ€Chip for Cancer and Immune Organs Modeling. Advanced Healthcare Materials, 2019, 8, e1801363.	3.9	111
39	Engineering Precision Medicine. Advanced Science, 2019, 6, 1801039.	5.6	55
40	Bioinks for 3D bioprinting: an overview. Biomaterials Science, 2018, 6, 915-946.	2.6	828
41	Fabrication of whole-thermoplastic normally closed microvalve, micro check valve, and micropump. Sensors and Actuators B: Chemical, 2018, 262, 625-636.	4.0	54
42	Electrically Driven Microengineered Bioinspired Soft Robots. Advanced Materials, 2018, 30, 1704189.	11.1	140
43	Three-Dimensional Bioprinting Strategies for Tissue Engineering. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a025718.	2.9	67
44	Protein/polysaccharideâ€based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2018, 106, 769-781.	2.1	79
45	Smart Bandage for Monitoring and Treatment of Chronic Wounds. Small, 2018, 14, e1703509.	5.2	257
46	Bioprinting: Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10	11.1	4
47	Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting. Advanced Materials, 2018, 30, e1800242.	11.1	277
48	Smart Bandages: Smart Bandage for Monitoring and Treatment of Chronic Wounds (Small 33/2018). Small, 2018, 14, 1870150.	5.2	4
49	3D Bioprinting for Tissue and Organ Fabrication. Annals of Biomedical Engineering, 2017, 45, 148-163.	1.3	507
50	Bioprinting: Rapid Continuous Multimaterial Extrusion Bioprinting (Adv. Mater. 3/2017). Advanced Materials, 2017, 29, .	11.1	9
51	Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model. Small, 2017, 13, 1603737.	5.2	75
52	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2293-E2302.	3.3	570
53	Organâ€Onâ€Aâ€Chip: Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model (Small) Tj ETQq1 1 0.784	5.2	1
54	Controlling Incoming Macrophages to Implants: Responsiveness of Macrophages to Gelatin Micropatterns under M1/M2 Phenotype Defining Biochemical Stimulations. Advanced Biology, 2017, 1, 1700041.	3.0	12

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55	Biosensors: Labelâ€Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes (Adv. Sci. 5/2017). Advanced Science, 2017, 4, .	5.6	3
56	A Textile Dressing for Temporal and Dosage Controlled Drug Delivery. Advanced Functional Materials, 2017, 27, 1702399.	7.8	187
57	Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery. Scientific Reports, 2017, 7, 9220.	1.6	90
58	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. Scientific Reports, 2017, 7, 8837.	1.6	407
59	Integrinâ€Mediated Interactions Control Macrophage Polarization in 3D Hydrogels. Advanced Healthcare Materials, 2017, 6, 1700289.	3.9	169
60	Rapid Continuous Multimaterial Extrusion Bioprinting. Advanced Materials, 2017, 29, 1604630.	11.1	275
61	Reduced Graphene Oxideâ€GelMA Hybrid Hydrogels as Scaffolds for Cardiac Tissue Engineering. Small, 2016, 12, 3677-3689.	5.2	385
62	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Lowâ€Viscosity Bioink. Advanced Materials, 2016, 28, 677-684.	11.1	677
63	Advancing Tissue Engineering: A Tale of Nanoâ€, Microâ€, and Macroscale Integration. Small, 2016, 12, 2130-2145.	5.2	62
64	A Bioactive Carbon Nanotubeâ€Based Ink for Printing 2D and 3D Flexible Electronics. Advanced Materials, 2016, 28, 3280-3289.	11.1	199
65	Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. Scientific Reports, 2016, 6, 24598.	1.6	132
66	Platinum nanopetal-based potassium sensors for acute cell death monitoring. RSC Advances, 2016, 6, 40517-40526.	1.7	15
67	Hydrophobic Hydrogels: Toward Construction of Floating (Bio)microdevices. Chemistry of Materials, 2016, 28, 3641-3648.	3.2	49
68	Engineering Immunomodulatory Biomaterials To Tune the Inflammatory Response. Trends in Biotechnology, 2016, 34, 470-482.	4.9	387
69	Bioprinting 3D microfibrous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. Biomaterials, 2016, 110, 45-59.	5.7	699
70	Bioprinted thrombosis-on-a-chip. Lab on A Chip, 2016, 16, 4097-4105.	3.1	183
71	Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. Biomaterials, 2016, 106, 58-68.	5.7	727
72	Dermal Patch with Integrated Flexible Heater for on Demand Drug Delivery. Advanced Healthcare Materials, 2016, 5, 175-184.	3.9	109

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73	pHâ€Sensing Hydrogel Fibers: Flexible pHâ€Sensing Hydrogel Fibers for Epidermal Applications (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	3.9	4
74	Google Glass-Directed Monitoring and Control of Microfluidic Biosensors and Actuators. Scientific Reports, 2016, 6, 22237.	1.6	34
75	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. Analytical Chemistry, 2016, 88, 10019-10027.	3.2	181
76	Hybrid Microscopy: Enabling Inexpensive High-Performance Imaging through Combined Physical and Optical Magnifications. Scientific Reports, 2016, 6, 22691.	1.6	44
77	Flexible pHâ€Sensing Hydrogel Fibers for Epidermal Applications. Advanced Healthcare Materials, 2016, 5, 711-719.	3.9	172
78	A liver-on-a-chip platform with bioprinted hepatic spheroids. Biofabrication, 2016, 8, 014101.	3.7	466
79	Nanotechnology in Textiles. ACS Nano, 2016, 10, 3042-3068.	7.3	530
80	Elastomeric free-form blood vessels for interconnecting organs on chip systems. Lab on A Chip, 2016, 16, 1579-1586.	3.1	79
81	Photocrosslinkable Gelatin Hydrogel for Epidermal Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 108-118.	3.9	595
82	Aligned Carbon Nanotubeâ€“Based Flexible Gel Substrates for Engineering Biohybrid Tissue Actuators. Advanced Functional Materials, 2015, 25, 4486-4495.	7.8	146
83	Smart flexible wound dressing with wireless drug delivery. , 2015, , .		11
84	Microfluidics for advanced drug delivery systems. Current Opinion in Chemical Engineering, 2015, 7, 101-112.	3.8	182
85	A cost-effective fluorescence mini-microscope for biomedical applications. Lab on A Chip, 2015, 15, 3661-3669.	3.1	86
86	From cardiac tissue engineering to heart-on-a-chip: beating challenges. Biomedical Materials (Bristol), 2015, 10, 034006.	1.7	134
87	Antibody Derived Peptides for Detection of Ebola Virus Glycoprotein. PLoS ONE, 2015, 10, e0135859.	1.1	15
88	Wireless flexible smart bandage for continuous monitoring of wound oxygenation. , 2014, , .		9
89	Layerâ€byâ€Layer Assembly of 3D Tissue Constructs with Functionalized Graphene. Advanced Functional Materials, 2014, 24, 6136-6144.	7.8	151
90	All electronic approach for high-throughput cell trapping and lysis with electrical impedance monitoring. Biosensors and Bioelectronics, 2014, 54, 462-467.	5.3	35

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91	Surface plasmon resonance fiber sensor for real-time and label-free monitoring of cellular behavior. Biosensors and Bioelectronics, 2014, 56, 359-367.	5.3	99
92	Hydrogels for cardiac tissue engineering. NPG Asia Materials, 2014, 6, e99-e99.	3.8	132
93	Direct-write bioprinting of cell-laden methacrylated gelatin hydrogels. Biofabrication, 2014, 6, 024105.	3.7	528
94	Organ-on-a-chip platforms for studying drug delivery systems. Journal of Controlled Release, 2014, 190, 82-93.	4.8	308
95	Organs-on-a-chip: a new tool for drug discovery. Expert Opinion on Drug Discovery, 2014, 9, 335-352.	2.5	175
96	Microfluidic techniques for development of 3D vascularized tissue. Biomaterials, 2014, 35, 7308-7325.	5.7	254
97	Tough and flexible CNTâ€“polymeric hybrid scaffolds for engineering cardiac constructs. Biomaterials, 2014, 35, 7346-7354.	5.7	249
98	Micro- and Nanoengineering Approaches to Control Stem Cell-Biomaterial Interactions. Journal of Functional Biomaterials, 2011, 2, 88-106.	1.8	47
99	Microfabricated gels for tissue engineering. , 0, , 317-331.		0